

To: Smith, Claudia[Smith.Claudia@epa.gov]
Cc: Rothery, Deirdre[Rothery.Deirdre@epa.gov]
From: Daly, Carl
Sent: Fri 2/26/2016 4:09:02 PM
Subject: RE: U&O FIP control efficiency

Yes, wait. I'm double checking my recollection on how we calculate reductions with regional haze.

Carl Daly, Director

Air Program

303-312-6416

From: Smith, Claudia
Sent: Friday, February 26, 2016 9:00 AM
To: Daly, Carl <Daly.Carl@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>
Subject: RE: U&O FIP control efficiency

That's what I understood from Bruce's email. I will make the necessary tweaks to the reg text. Shall I wait until after the call next week to make preamble changes?

Thanks,

Claudia

From: Daly, Carl
Sent: Friday, February 26, 2016 8:58 AM
To: Smith, Claudia <Smith.Claudia@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>
Subject: RE: U&O FIP control efficiency

Ex. 5 - Deliberative Process

Carl Daly, Director

Air Program

303-312-6416

From: Moore, Bruce
Sent: Friday, February 26, 2016 8:42 AM
To: Smith, Claudia <Smith.Claudia@epa.gov>
Cc: Daly, Carl <Daly.Carl@epa.gov>; Rothery, Deirdre <Rothery.Deirdre@epa.gov>; Tsirigotis, Peter <Tsirigotis.Peter@epa.gov>; Cozzie, David <Cozzie.David@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>
Subject: U&O FIP control efficiency

Claudia, Carl, and Dee,

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I understand we have a call on Tuesday to help put this issue to rest.

Bruce

Bruce Moore

Senior Technical Advisor - Oil & Natural Gas Sector

Office of Air and Radiation

Office of Air Quality Planning and Standards

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

(919) 541-5460

moore.bruce@epa.gov

For information, visit: www3.epa.gov/airquality/oilandgas

From: Smith, Claudia
Sent: Tuesday, February 23, 2016 6:21 PM
To: Moore, Bruce <Moore.Bruce@epa.gov>
Subject: RE: A picture is worth a thousand words....

Hi, Bruce,

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Thanks,

Claudia

From: Smith, Claudia
Sent: Monday, February 22, 2016 2:24 PM
To: Moore, Bruce <Moore.Bruce@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>; Daly, Carl <Daly.Carl@epa.gov>; Beeler, Cindy <Beeler.Cindy@epa.gov>
Subject: RE: A picture is worth a thousand words....
Importance: High

Bruce,

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Thank you!

Claudia

From: Smith, Claudia
Sent: Friday, February 19, 2016 1:33 PM
To: Koerber, Mike <Koerber.Mike@epa.gov>; Daly, Carl <Daly.Carl@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>; Moore, Bruce <Moore.Bruce@epa.gov>
Subject: RE: A picture is worth a thousand words....

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Thanks,

Claudia

From CDPHE - Frequently Asked Questions - Regulation Numbers 3, 6, 7 - February 2014 Revisions – Volume 1

https://www.colorado.gov/pacific/sites/default/files/AP_Regulation-3-6-7-FAQ.pdf

Storage Tank Control and Capture – Section XVII.C.1. and XVII.C.2.a.

10. Sources are required to control emissions under Section XVII with at least a 95% control efficiency but also to use a combustion device designed to have a destruction efficiency of 98%.

Why does the Division distinguish between the two percentages?

Sources are required to meet a 95% control efficiency. The Division requires that the combustion device used be designed to have a 98% destruction efficiency, because it recognizes that combustion devices designed to meet a 98% control efficiency may not actually meet this percentage in practice, given the variability of field conditions, downtime, etc.

a. Should operators be using 95% or 98% for emission calculation and permitting purposes? In other words, are operators required to use 98%, or is 95% still appropriate to use for permitting?

Operators should be using the 95% for emission calculation and permitting purposes.

The Division's permitting unit may approve other emission control efficiencies, where requested and justified.

b. How does the Division plan to confirm design efficiency?

Operators are required to keep records of the manufacturer's specifications or equivalent for air pollution control equipment. See Section XVII.B.2.a.

Reg Language

XVII.C. (State Only) Emission reduction from storage tanks at oil and gas exploration and production operations, well production facilities, natural gas compressor stations, and natural gas processing plants.

XVII.C.1. Control and monitoring requirements for storage tanks

XVII.C.1.a. Beginning May 1, 2008, owners or operators of all storage tanks storing condensate with uncontrolled actual emissions of VOCs equal to or greater than twenty (20) tons per year based on a rolling twelve-month total must operate air pollution control equipment that has an average control efficiency of at least 95% for VOCs.

XVII.C.1.b. Owners or operators of storage tanks with uncontrolled actual emissions of VOCs equal to or greater than six (6) tons per year based on a rolling twelve-month total must operate air pollution control equipment that achieves an average hydrocarbon control efficiency of 95%. If a combustion device is used, it must have a design destruction efficiency of at least 98% for hydrocarbons, except where the combustion device has been authorized by permit prior to May 1, 2014.

XVII.C.2. Capture and monitoring requirements for storage tanks that are fitted with air pollution control equipment as required by Sections XII.D. or XVII.C.1.

XVII.C.2.a. Owners or operators of storage tanks must route all hydrocarbon emissions to air pollution control equipment, and must operate without venting hydrocarbon emissions from the thief hatch (or other access point to the tank) or pressure relief device during normal operation, unless venting is reasonably required for maintenance, gauging, or safety of personnel and equipment. Compliance must be achieved in accordance with the schedule in Section XVII.C.2.b.(ii).

+ text from DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, Air Quality Control Commission, REGULATION NUMBER 7

CONTROL OF OZONE VIA OZONE PRECURSORS AND CONTROL OF HYDROCARBONS VIA OIL AND GAS EMISSIONS

Basis pg. 125

https://www.colorado.gov/pacific/sites/default/files/5-CCR-1001-9_0.pdf

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properly operated.

From: Koerber, Mike
Sent: Friday, February 19, 2016 8:50 AM
To: Daly, Carl <Daly.Carl@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>; Smith, Claudia <Smith.Claudia@epa.gov>;
Moore, Bruce <Moore.Bruce@epa.gov>
Subject: RE: A picture is worth a thousand words....

Thanks, Carl.

Bruce – your comments?

From: Daly, Carl
Sent: Friday, February 19, 2016 10:45 AM
To: Koerber, Mike <Koerber.Mike@epa.gov>
Cc: Rothery, Deirdre <Rothery.Deirdre@epa.gov>; Smith, Claudia <Smith.Claudia@epa.gov>;
Moore, Bruce <Moore.Bruce@epa.gov>
Subject: Re: A picture is worth a thousand words....

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Ex. 5 - Deliberative Process

Carl Daly 303-312-6416

On Feb 19, 2016, at 8:31 AM, Koerber, Mike <Koerber.Mike@epa.gov> wrote:

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Mike

<3367_001.tif>